

EXHIBIT C

**EXPERT REPORT OF
P.J. ERIC STALLARD, A.S.A., M.A.A.A., F.C.A.**

In re W.R. Grace & Co., et al.

June 18, 2007

PURPOSE

This document is my expert report concerning W.R. Grace & Co., *et al.*, Case No. 01-1139 (JKF). I was asked to prepare this report on behalf of David T. Austern, the Court-Appointed Future Claimants' Representative.

RULE 26 COMPLIANCE

This report conforms to Rule 26(a)(2)(B) of the Federal Rules of Civil Procedure. As therein provided, this report contains:

1. A statement of my qualifications as an expert witness, including a list of all publications authored or co-authored by me within the preceding ten years;
2. A statement of my compensation for work in connection with this case;
3. A listing of other cases in which I have testified as an expert at trial or by deposition within the preceding four years;
4. A listing of the data and other information that I considered in forming my opinions;
5. A complete statement of all opinions to be expressed and the basis and reasons for them;
6. The exhibits used as a summary of or support for my opinions.

I reserve the right to modify this report as new information becomes available between now and the time of trial. I anticipate that I will review the expert reports of opposing experts and may offer my opinions about their analyses and conclusions in a rebuttal or supplemental report.

QUALIFICATIONS

I am a Research Professor in the Department of Sociology and the Center for Population Health and Aging at Duke University. I am a Member of the American Academy of Actuaries, an Associate of the Society of Actuaries, and a Fellow of the Conference of Consulting Actuaries.

My research expertise includes modeling and forecasting for medical demography and health actuarial practice. My 2005 book, *Forecasting Product Liability Claims: Epidemiology and Modeling in the Manville Asbestos Case*, with co-authors K.G. Manton and J.E. Cohen, published by Springer-Verlag, covers the full range of epidemiological, demographic, and actuarial issues in forecasting liabilities for asbestos-related disease and mortality. My six other books and monographs and over 100 scientific articles span a broad range of topics in medical demography and health actuarial practice. My expertise in these areas is evidenced by my recent appointments to the 2007 Technical Panel on Assumptions and Methods of the Social Security Advisory Board and to the position of Deputy Editor of the scientific journal *Demography*. A listing of my publications within the past ten years is attached as Appendix A and a copy of my curriculum vitae is attached as Appendix B.

During 1993-1995, I was Principal Investigator on a project for the United States District Court, Eastern District of New York (Hon. Jack B. Weinstein), which led to the development of my asbestos forecasting model for the future numbers and types of asbestos-related personal injury

claims in the Manville Personal Injury Settlement Trust (the “Manville Trust”) litigation following the Johns-Manville bankruptcy case.¹ I served as a member of a panel of experts that the Court appointed under Rule 706 of the Federal Rules of Evidence, and I was certified as an expert witness in the area of forecasting asbestos-related injuries.

I have also prepared highly-confidential forecasts of asbestos-related personal injury claims and indemnity costs for claims against several other major corporations, and I have reviewed both publicly available and highly-confidential reports on similar forecasts prepared by several other analysts.

The forecasting model I developed for the Manville Trust case is particularly relevant to the current case because it was the basis of the actuarial analysis of the W.R. Grace & Co. liabilities prepared by Towers Perrin Tillinghast actuary Jennifer L. Biggs in her June 18, 2007 expert report: *Estimation of Asbestos Personal Injury Liabilities of W.R. Grace as of April 2, 2001*.

COMPENSATION

By agreement, my compensation consists of payment at the rate of \$400.00 per hour for all work performed, including, if any, testimony at a deposition, hearing, or trial; and reimbursement for reasonable expenses for travel and miscellaneous costs.

OTHER CASES

Within the preceding four years –

On January 13–14, 2004, I testified by deposition at Raleigh, NC, as an expert on behalf of the United States in the case:

In re Coltec Industries v. United States; in the United States Court of Federal Claims, Case No. 01–72.

Prior to the preceding four years –

On July 2, 2002, I testified by deposition at Raleigh, NC, as a fact witness on behalf of Sealed Air Corporation in the case:

In re W.R. Grace & Co. (Official Committee of Asbestos Personal Injury Claimants, et al. v. Sealed Air Corporation, et al., Adv. No. 02–2210; and *Official Committee of Asbestos*

¹ See “Projections of asbestos-related personal injury claims against the Manville Personal Injury Settlement Trust, males 1990-2049, by occupation, date of first exposure, and type of claim.” Submitted to U.S. District Court, Eastern District of New York, as sworn testimony, Judge Jack B. Weinstein presiding, March 15, 1994. (Eric Stallard and Kenneth G. Manton); also see “Estimates and projections of asbestos-related diseases and exposures among Manville Personal Injury Settlement Trust claimants, 1990-2049.” Presented to U.S. District Court, Eastern District of New York, Judge Jack B. Weinstein presiding, September 7, 1993, and entered into testimony March 15, 1994. (Eric Stallard and Kenneth G. Manton)

Personal Injury Claimants, et al., v. Fresenius Medical Care Holdings, Inc., et al., Adv. No. 02-2211); in the United States District Court for the District of Delaware.

On March 15 and May 11, 1994, I testified at Brooklyn, NY, as an expert on behalf of the Court as a member of the Rule 706 Panel in the Manville Trust case:

In re Findley v. Falise; in the United States District Court, Eastern District of New York, Case No. 90-3973.

INFORMATION CONSIDERED

1. Eric Stallard and Kenneth G. Manton. *Estimates and projections of asbestos-related diseases and exposures among Manville Personal Injury Settlement Trust claimants, 1990-2049.* Presented to U.S. District Court, Eastern District of New York, Judge Jack B. Weinstein presiding, September 7, 1993, and entered into testimony March 15, 1994.
2. Eric Stallard and Kenneth G. Manton. *Projections of asbestos-related personal injury claims against the Manville Personal Injury Settlement Trust, males 1990-2049, by occupation, date of first exposure, and type of claim.* Submitted to U.S. District Court, Eastern District of New York, as sworn testimony, Judge Jack B. Weinstein presiding, March 15, 1994.
3. Eric Stallard. "Product liability forecasting for asbestos-related personal injury claims: A multidisciplinary approach." Chapter 13 in *Population Health and Aging: Strengthening the Dialogue Between Epidemiology and Demography – Annals of the New York Academy of Sciences*, (M. Weinstein, A.I. Hermalin, and M.A. Stoto, Eds.), Volume 954, December 2001, pp. 223-244. ISBN 1-57331-372-6.
4. Eric Stallard, Kenneth G. Manton, and Joel E. Cohen. *Forecasting Product Liability Claims: Epidemiology and Modeling in the Manville Asbestos Case.* Springer Verlag, New York, 2005.
5. Data files from the Manville Personal Injury Settlement Trust claims database provided by the Trust for the purposes of conducting the analyses reported in items 1–4 above.

STATEMENT OF OPINIONS

1. Epidemiologic and demographic modeling techniques can be used to develop forecasts of the future number, timing, and nature of asbestos-related personal injury claims to be brought against major defendant corporations whose products and/or processes resulted in human exposures to asbestos fibers.

The basis of this opinion is that I have actually done this in my work for the Court as a member of the Rule 706 Panel in the Manville Trust case. This is fully documented in references 1–4 in the previous section.

2. The forecasts of the future number and timing of asbestos-related personal injury claims should differ according to the nature of the claims being forecasted, where the nature of such claims is characterized as one of several possible asbestos-related diseases or conditions, or, in the case where more than one of these conditions occurs simultaneously in a given

claimant, where the nature of such claims is characterized as the most severe of the indicated diseases or conditions.

The basis of this opinion is that it reflects the results obtained from my work for the Court as a member of the Rule 706 Panel in the Manville Trust case. It also reflects the results obtained by other analysts using related modeling techniques whose results I compared with my results in references 1–4 in the previous section.

Table F in reference 2 showed that the forecasted numbers of claims were projected to decline from 86,606 in 1990–1994 to 9 in 2045–2049 after which point the projection was terminated due to the combination of (1) the fact that the surviving members of the exposed population would be all aged 95 years or older and (2) the assumption of the model that claims cease to be filed once a potential claimant reaches age 95.

The process governing the timing and patterns of initial increases and subsequent decreases in the number of claims was termed the *claim runoff process* in reference 3.

Table F in reference 2 showed that the relative declines are different for the different diseases or conditions with malignancies (diseases 1–4) having the slowest relative declines and non-malignancies (diseases 5–7) the fastest relative declines.

For example, among the total 26,049 mesothelioma claims projected for the interval 1990–2049, 17.06% were projected to occur in 1995–1999, 12.29% in 2010–2014, and 2.76% in 2030–2034. In contrast, among the total 135,697 asbestosis claims projected for the same interval, 22.93% were projected to occur in 1995–1999, 8.85% in 2010–2014, and 0.91% in 2030–2034.

The quinquennium with the largest percentage (26.64%) of projected asbestosis claims was 1990–1994; the mesothelioma percentage for 1990–1994 was substantially smaller (14.94%). The quinquennium with the largest percentage (17.06%) of projected mesothelioma claims was 1995–1999. The projected mesothelioma claim runoff process did not reach its peak until 1995–1999 whereas the projected asbestosis claim runoff process was already in decline by 1990–1994.

These differences in the disease-specific claim runoff processes were projected to lead to a relatively greater fraction of malignancies among claims projected to be filed in later years.

For example, mesothelioma claims were projected to increase from 4.49% of claims filed in 1990–1994 to 8.92% of claims filed in 2010–2014 continuing to 16.72% of claims filed in 2030–2034. In contrast, asbestosis claims were projected to decrease from 41.73% of claims filed in 1990–1994 to 28.60% of claims filed in 2030–2034.

An important implication of these differences in the disease-specific claim runoff processes is that one should not project the relative rates of decline in claims for one disease by assuming that they are equal to the relative rates of decline in claims for some other disease.

3. The forecasts of the future number and timing of asbestos-related personal injury claims should differ according to the dates of first exposure to asbestos or asbestos-containing products.

As above, the basis of this opinion is that it reflects the results obtained from my work for the Court as a member of the Rule 706 Panel in the Manville Trust case.

Table E in reference 2 showed that the relative rates of decline are different for the different dates of first exposure (DOFE) with later dates having the slowest relative declines and earlier dates the fastest relative declines. Among the projected claims with dates of first exposure in 1955 or later, the quinquennium with the largest percentage of claims was generally 1995–1999. The projected claim runoff processes for these DOFE-groups did not reach their peak until 1995–1999, whereas the projected claim runoff processes for earlier DOFE-groups were already in decline by 1990–1994.

The differences in the DOFE-specific claim runoff processes were projected to lead to a relatively greater fraction of later dates of first exposure among claims projected to be filed in later years.

For example, claims with 1940–1944 DOFE were projected to decrease as a fraction of all projected claims from 15.72% of claims filed in 1990–1994 to 3.00% of claims filed in 2010–2014 and to vanish from the pool of claims by 2020–2024. In contrast, claims with 1970–1974 DOFE were projected to increase as a fraction of all projected claims from 6.58% of claims filed in 1990–1994 to 23.69% of claims filed in 2010–2014 continuing to 41.90% in 2030–2034.

An important implication of these differences in the DOFE-specific claim runoff processes is that one should not project the relative rates of decline in claims for one DOFE by assuming that they are equal to the relative rates of decline in claims for some other DOFE.

4. The differences noted in opinions 2 and 3 interact in such a way that within each forecasted group of claims having the same date of first exposure, the relative rates of decline in projected claims should differ according to the diseases or conditions reported on the claims being forecasted. Conversely, within each forecasted group of claims having the same disease or condition, the relative rates of decline in projected claims should differ according to the date of first exposure reported on the claims being forecasted.

As above, the basis of this opinion is that it reflects the results obtained from my work for the Court as a member of the Rule 706 Panel in the Manville Trust case.

An important implication of these differences in the DOFE-specific disease/condition-specific claim runoff processes is that one should not assume that the relative rates of decline in projected claims for each given disease/condition identified in opinion 2 apply to the W.R. Grace data unless it can be assumed that the distribution of dates of first exposure in the W.R. Grace data is the same as in the Manville Trust data.

Because Jennifer L. Biggs reported to me that the distributions of dates of first exposure for claims against W.R. Grace and the Manville Trust were substantially different, I recommended that she consider using DOFE-specific disease/condition-specific relative rates of decline in generating her projected claims. Although the forecasts needed to construct such rates were not contained in any of the publicly available documents referenced above, they were contained in my source files for Tables E and F in reference 2 and Tables 8.19 and 8.20 in reference 4. These forecasts are summarized below in Table 1.

EXHIBITS TO BE USED

I have not determined whether I will employ additional tables and figures, or other material, as exhibits in connection with any testimony I might give in this matter. In the event that I decide to do so, they will be disclosed in accordance with any applicable rules, court orders, or stipulations among the parties.

Signed this 18th day of June, 2007:



P.J. Eric Stallard, A.S.A., M.A.A.A., F.C.A.
Research Professor

Table 1: Projected Number of Qualified Male Claims against the Manville Trust by Most Severe Alleged Disease/Injury, Dates of First Exposure, and Quinquennial Dates of Claim 1990-2049

DOFE	Disease/Condition	Date of Claim												Total
		1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	
1915-1919	1. Mesothelioma	2	0	0	0	0	0	0	0	0	0	0	0	2
	2. Lung Cancer	0	0	0	0	0	0	0	0	0	0	0	0	0
	3. Colon/Rectal Ca	0	0	0	0	0	0	0	0	0	0	0	0	0
	4. Other Cancer	0	0	0	0	0	0	0	0	0	0	0	0	0
	5. Asbestosis	1	0	0	0	0	0	0	0	0	0	0	0	1
	6. Disputed Asbest	0	0	0	0	0	0	0	0	0	0	0	0	0
	7. Pleural Plaques	0	0	0	0	0	0	0	0	0	0	0	0	0
	8. Non-asbestos Related	1	0	0	0	0	0	0	0	0	0	0	0	1
	9. Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	4	0	0	0	0	0	0	0	0	0	0	0	4
1920-1924	1. Mesothelioma	25	2	0	0	0	0	0	0	0	0	0	0	27
	2. Lung Cancer	17	0	0	0	0	0	0	0	0	0	0	0	17
	3. Colon/Rectal Ca	0	0	0	0	0	0	0	0	0	0	0	0	0
	4. Other Cancer	6	0	0	0	0	0	0	0	0	0	0	0	6
	5. Asbestosis	44	1	0	0	0	0	0	0	0	0	0	0	45
	6. Disputed Asbest	7	0	0	0	0	0	0	0	0	0	0	0	7
	7. Pleural Plaques	11	0	0	0	0	0	0	0	0	0	0	0	11
	8. Non-asbestos Related	10	1	0	0	0	0	0	0	0	0	0	0	11
	9. Unknown	6	0	0	0	0	0	0	0	0	0	0	0	6
	Total	126	4	0	0	0	0	0	0	0	0	0	0	130
1925-1929	1. Mesothelioma	60	27	1	0	0	0	0	0	0	0	0	0	88
	2. Lung Cancer	70	34	0	0	0	0	0	0	0	0	0	0	104
	3. Colon/Rectal Ca	7	0	0	0	0	0	0	0	0	0	0	0	7
	4. Other Cancer	9	5	0	0	0	0	0	0	0	0	0	0	14
	5. Asbestosis	170	68	1	0	0	0	0	0	0	0	0	0	239
	6. Disputed Asbest	44	7	0	0	0	0	0	0	0	0	0	0	50
	7. Pleural Plaques	47	15	0	0	0	0	0	0	0	0	0	0	62
	8. Non-asbestos Related	31	18	1	0	0	0	0	0	0	0	0	0	49
	9. Unknown	5	13	0	0	0	0	0	0	0	0	0	0	18
	Total	442	187	2	0	0	0	0	0	0	0	0	0	632
1930-1934	1. Mesothelioma	81	92	42	3	0	0	0	0	0	0	0	0	217
	2. Lung Cancer	136	110	48	0	0	0	0	0	0	0	0	0	294
	3. Colon/Rectal Ca	22	11	0	0	0	0	0	0	0	0	0	0	34
	4. Other Cancer	14	14	7	0	0	0	0	0	0	0	0	0	35
	5. Asbestosis	330	233	82	1	0	0	0	0	0	0	0	0	646
	6. Disputed Asbest	99	70	7	0	0	0	0	0	0	0	0	0	177
	7. Pleural Plaques	83	71	18	0	0	0	0	0	0	0	0	0	172
	8. Non-asbestos Related	60	38	30	1	0	0	0	0	0	0	0	0	129
	9. Unknown	17	6	12	0	0	0	0	0	0	0	0	0	35
	Total	843	645	246	5	0	0	0	0	0	0	0	0	1,739
1935-1939	1. Mesothelioma	392	163	179	79	4	0	0	0	0	0	0	0	818
	2. Lung Cancer	485	284	222	85	0	0	0	0	0	0	0	0	1,077
	3. Colon/Rectal Ca	64	47	27	0	0	0	0	0	0	0	0	0	139
	4. Other Cancer	85	28	27	14	0	0	0	0	0	0	0	0	154
	5. Asbestosis	1,550	629	420	145	2	0	0	0	0	0	0	0	2,746
	6. Disputed Asbest	444	190	135	12	0	0	0	0	0	0	0	0	781
	7. Pleural Plaques	471	156	129	30	0	0	0	0	0	0	0	0	785
	8. Non-asbestos Related	356	111	65	56	2	0	0	0	0	0	0	0	589
	9. Unknown	239	36	12	24	0	0	0	0	0	0	0	0	312
	Total	4,087	1,644	1,216	445	8	0	0	0	0	0	0	0	7,400
1940-1944	1. Mesothelioma	1,068	1,420	544	586	266	25	0	0	0	0	0	0	3,910
	2. Lung Cancer	1,372	1,431	710	537	237	0	0	0	0	0	0	0	4,287
	3. Colon/Rectal Ca	160	174	125	64	0	0	0	0	0	0	0	0	523
	4. Other Cancer	223	210	67	49	29	0	0	0	0	0	0	0	578
	5. Asbestosis	5,483	4,421	1,647	1,010	310	9	0	0	0	0	0	0	12,880
	6. Disputed Asbest	1,890	1,155	354	242	24	0	0	0	0	0	0	0	3,666
	7. Pleural Plaques	1,690	1,272	358	299	58	0	0	0	0	0	0	0	3,678
	8. Non-asbestos Related	1,418	791	253	140	99	6	0	0	0	0	0	0	2,707
	9. Unknown	312	421	112	53	53	0	0	0	0	0	0	0	950
	Total	13,615	11,296	4,171	2,981	1,078	40	0	0	0	0	0	0	33,181
1945-1949	1. Mesothelioma	754	616	698	329	344	123	7	0	0	0	0	0	2,871
	2. Lung Cancer	1,271	1,024	887	555	452	242	0	0	0	0	0	0	4,432
	3. Colon/Rectal Ca	207	126	122	85	45	0	0	0	0	0	0	0	584
	4. Other Cancer	189	169	157	50	41	20	0	0	0	0	0	0	628
	5. Asbestosis	5,801	3,600	2,303	973	637	207	2	0	0	0	0	0	13,523
	6. Disputed Asbest	2,062	1,343	623	270	168	15	0	0	0	0	0	0	4,482
	7. Pleural Plaques	2,096	1,112	694	238	209	37	0	0	0	0	0	0	4,387
	8. Non-asbestos Related	1,868	1,127	591	172	111	77	3	0	0	0	0	0	3,949
	9. Unknown	602	270	332	70	19	39	0	0	0	0	0	0	1,332
	Total	14,850	9,388	6,408	2,743	2,027	761	12	0	0	0	0	0	36,188

Table 1 (continued)

DOFE	Disease/Condition	Date of Claim												Total
		1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	
1950-1954	1. Mesothelioma	629	814	672	772	374	411	140	5	0	0	0	0	3,817
	2. Lung Cancer	1,170	1,374	1,156	992	621	533	271	0	0	0	0	0	6,117
	3. Colon/Rectal Ca	140	233	144	129	86	54	0	0	0	0	0	0	787
	4. Other Cancer	195	201	183	175	56	48	25	0	0	0	0	0	885
	5. Asbestosis	6,181	5,421	3,423	2,207	953	626	210	2	0	0	0	0	19,024
	6. Disputed Asbest	2,498	1,988	1,297	603	275	187	15	0	0	0	0	0	6,864
	7. Pleural Plaques	2,573	2,028	1,084	684	239	224	39	0	0	0	0	0	6,871
	8. Non-asbestos Related	1,309	1,705	1,007	552	157	105	92	3	0	0	0	0	4,930
	9. Unknown	323	638	291	352	55	16	36	0	0	0	0	0	1,711
	Total	15,019	14,403	9,257	6,466	2,817	2,205	830	10	0	0	0	0	51,006
1955-1959	1. Mesothelioma	413	558	719	604	713	351	386	143	11	0	0	0	3,898
	2. Lung Cancer	643	1,074	1,212	1,051	894	581	525	243	0	0	0	0	6,223
	3. Colon/Rectal Ca	62	131	206	128	114	83	55	0	0	0	0	0	779
	4. Other Cancer	129	177	176	172	163	53	53	25	0	0	0	0	949
	5. Asbestosis	4,789	5,119	4,384	2,890	1,887	855	591	205	3	0	0	0	20,721
	6. Disputed Asbest	2,105	2,169	1,659	1,185	532	260	178	14	0	0	0	0	8,101
	7. Pleural Plaques	2,039	2,172	1,653	927	580	222	208	40	0	0	0	0	7,841
	8. Non-asbestos Related	1,082	1,180	1,446	897	501	140	101	98	4	0	0	0	5,450
	9. Unknown	320	327	664	298	385	47	15	28	0	0	0	0	2,084
	Total	11,582	12,908	12,119	8,151	5,770	2,591	2,112	795	18	0	0	0	56,046
1960-1964	1. Mesothelioma	249	320	425	565	462	552	273	296	139	6	0	0	3,287
	2. Lung Cancer	424	528	832	945	761	667	449	403	152	0	0	0	5,161
	3. Colon/Rectal Ca	36	49	99	153	98	90	69	44	0	0	0	0	639
	4. Other Cancer	50	114	139	140	133	123	39	51	21	0	0	0	811
	5. Asbestosis	4,250	3,478	3,644	3,199	2,055	1,378	659	466	191	2	0	0	19,322
	6. Disputed Asbest	1,641	1,566	1,604	1,250	933	408	211	151	12	0	0	0	7,777
	7. Pleural Plaques	1,836	1,480	1,563	1,203	654	418	162	139	34	0	0	0	7,489
	8. Non-asbestos Related	982	832	897	1,102	701	398	114	95	108	7	0	0	5,238
	9. Unknown	374	273	277	558	251	327	34	11	22	0	0	0	2,126
	Total	9,842	8,641	9,482	9,115	6,048	4,360	2,011	1,657	678	14	0	0	51,849
1965-1969	1. Mesothelioma	176	279	365	471	626	510	600	285	315	160	1	0	3,789
	2. Lung Cancer	256	552	623	936	1,026	898	783	470	443	245	0	0	6,232
	3. Colon/Rectal Ca	26	40	52	109	180	115	103	61	46	0	0	0	732
	4. Other Cancer	35	69	128	163	143	153	151	38	48	14	0	0	942
	5. Asbestosis	4,818	4,467	3,681	3,680	3,197	2,161	1,375	608	501	161	0	0	24,649
	6. Disputed Asbest	1,612	1,865	1,755	1,778	1,367	998	419	236	169	14	0	0	10,212
	7. Pleural Plaques	1,670	2,062	1,627	1,620	1,226	660	393	166	147	25	0	0	9,595
	8. Non-asbestos Related	1,490	1,084	942	975	1,181	731	441	113	130	124	16	0	7,228
	9. Unknown	412	512	351	320	690	307	455	25	5	11	0	0	3,086
	Total	10,494	10,929	9,524	10,053	9,635	6,534	4,720	2,002	1,803	754	17	0	66,465
1970-1974	1. Mesothelioma	42	154	243	323	410	533	452	509	254	275	126	2	3,324
	2. Lung Cancer	96	255	462	528	833	906	762	614	430	422	129	0	5,437
	3. Colon/Rectal Ca	3	24	33	42	104	164	115	96	59	33	0	0	674
	4. Other Cancer	11	30	53	110	149	127	129	131	42	52	28	0	862
	5. Asbestosis	2,727	3,677	3,140	2,854	2,962	2,583	1,743	1,077	535	425	178	0	21,900
	6. Disputed Asbest	935	1,499	1,541	1,497	1,555	1,214	901	359	215	149	11	0	9,877
	7. Pleural Plaques	859	1,512	1,570	1,249	1,307	982	542	313	142	112	25	0	8,612
	8. Non-asbestos Related	549	1,232	856	821	868	1,066	643	394	108	100	144	7	6,787
	9. Unknown	481	418	503	345	312	651	288	470	16	2	16	0	3,502
	Total	5,703	8,801	8,400	7,768	8,500	8,226	5,575	3,963	1,802	1,570	657	9	60,975
1. Mesothelioma		3,891	4,445	3,890	3,730	3,201	2,506	1,858	1,238	719	440	128	2	26,049
2. Lung Cancer		5,941	6,667	6,152	5,630	4,824	3,825	2,791	1,729	1,025	667	129	0	39,381
3. Colon/Rectal Ca		728	837	807	711	627	505	342	202	105	33	0	0	4,897
4. Other Cancer		946	1,019	937	874	716	525	398	245	111	66	28	0	5,864
5. Asbestosis		36,145	31,113	22,724	16,960	12,003	7,819	4,581	2,357	1,230	587	178	0	135,697
6. Disputed Asbest		13,337	11,852	8,976	6,836	4,655	3,083	1,724	759	396	164	11	0	51,995
7. Pleural Plaques		13,374	11,880	8,696	6,249	4,273	2,543	1,344	659	322	137	25	0	49,502
8. Non-asbestos Related		9,154	8,118	6,089	4,717	3,621	2,523	1,395	704	350	230	160	7	37,068
9. Unknown		3,090	2,914	2,553	2,020	1,764	1,387	827	534	43	13	16	0	15,162
Total		86,606	78,845	60,824	47,728	35,883	24,717	15,260	8,427	4,302	2,338	674	9	365,615

APPENDIX A

APPENDIX A: PUBLICATIONS DURING PRECEDING TEN YEARS, 1997–2007

BOOKS AND MONOGRAPHS (3)

Forecasting Product Liability Claims: Epidemiology and Modeling in the Manville Asbestos Case. Springer Verlag, New York, 2005. (Eric Stallard, Kenneth G. Manton, and Joel E. Cohen)

Long Term Care: Actuarial Issues in Designing Voluntary Federal-Private LTC Insurance Programs. American Academy of Actuaries, Washington, DC, 1999 (<http://www.actuary.org/pdf/health/LTC.pdf>). (Harold L. Barney, Eric Stallard, Vincent L. Bodnar, Malcolm A. Cheung, Loretta Jacobs, Paul Janus, Walter T. Liptak, Bartley L. Munson, Alwyn V. Powell, Gordon R. Trapnell, and Robert K. Yee)

Social Security Reform Options. Public Policy Monograph, American Academy of Actuaries, Washington, DC, 2007. (Buffin KG, Burrows EE, Gebhardsbauer R, Klieber EJ, Randall RJ, Robberson PW, Schobel BJ, Stallard E, Steiner KA, Weiss J, Weisz LM)

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“Aging: Long-term care.” In press at the *Encyclopedia of Public Health* (H. Kristian Heggenhougen, Ed.), Elsevier Inc., Oxford, U.K., 2007.

“Projected use of long term care services among enrolled veterans.” In press at *The Gerontologist*. (Kinosian, B., Stallard, E., Wieland, D.)

“The random walk model of human aging and mortality: The Fokker-Planck, state-space, and force of mortality equations.” *First International Workshop on Constructal Theory of Social Dynamics*, Duke University, April 4–5, 2006. Accepted for publication by Springer in special volume edited by Adrian Bejan and Kenneth Land. (Kenneth G. Manton, Kenneth C. Land, and Eric Stallard)

“Trajectories of morbidity, disability, and mortality among the U.S. elderly population: Evidence from the 1984–1999 NLTCS.” In press at the *North American Actuarial Journal*.

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“Demographic issues in longevity risk analysis.” *Journal of Risk and Insurance* 73(4):575–609.

“Disease patterns in multiple-cause data at advanced ages: United States 1980–1998.” In *Proceedings of the International Collaborative Effort on Automating Mortality Statistics, Volume III* (Heron, M., Miniño, A.M., and Rosenberg, H.M., eds.), National Center for Health Statistics, Hyattsville, MD, pp. 73–96.

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“Endothelial progenitor cell therapy for atherosclerosis: The philosopher’s stone for an aging population.” *Science of Aging Knowledge Environment* 2005(25), pe18, June 22, 2005.

(Julia Kravchenko, Pascal J. Goldschmidt-Clermont, Tiffany Powell, Eric Stallard, Igor Akushevich, Michael S. Cuffe, and Kenneth G. Manton)

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“Computing time-varying sex-age-specific rates of marriage/union formation and dissolution in family household projection or simulation.” *Demographic Research* 11:263–304, December 2004. (Zeng, Y., Stallard, E., and Wang, Z.)

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“Diseases, chronic and degenerative.” In *The Encyclopedia of Population, Revised Edition* (Paul Demeny and Geoffrey McNicoll, eds.), Macmillan Reference USA, New York, 2003, Vol. 1, pp. 253-258.

“Underlying and multiple cause mortality at advanced ages: United States 1980–1998.” In *Living to 100 and Beyond: Survival at Advanced Ages Symposium*, Society of Actuaries Online Publications, 2003.

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http://library.soa.org/library/naaj/1997-09/naaj0207_7.pdf

2001

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“*Non-Insured Home and Community-Based Long-Term Care Incidence and Continuance Tables.*” Actuarial Report issued by the Long-Term Care Experience Committee, Society of Actuaries, Schaumburg, IL, March 2000. (Eric Stallard and Robert K. Yee) <http://www.soa.org/ccm/content/areas-of-practice/special-interest-sections/long-term-care-insurance/actuarial/papers-presentations-research-resources/ltdci-home-and-community/>

“Predicting 10-year care requirements for older people with suspected Alzheimer's disease.” *Journal of the American Geriatrics Society* 48(6): 631-638. (Bruce Kinoshian, Eric Stallard, Jason Lee, Max A. Woodbury, Arthur Zbrozek, and Henry A. Glick)

"Retirement and health: Estimates and projections of acute and long-term care needs and expenditures of the U.S. elderly population." Chapter 15 in *Retirement Needs Framework*, SOA Monograph M-RS00-1, pp 159-207, Society of Actuaries, Schaumburg, IL.

1999

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1998

"The dynamics of dimensions of age related disability 1982 to 1994 in the U.S. elderly population." *Journal of Gerontology: Biological Sciences* 53A: B59-B70. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

"Economic effects of reducing disability." *American Economic Review* 88(2):101-105, 1998. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

"Forecasting methods for HIV/AIDS and aging." In *Research on Aging* 20(6) (Special Issue: Ory, MG, Zablotsky, D. eds) pp. 846-864, 1998. (Kenneth G. Manton and Eric Stallard)

1997

"Non-white and white age trajectories of mortality: Evidence from extinct cohort analyses, 1950 to 1992." Chapter 2 in *Minorities, Aging, and Health* (K. Markides and M. Miranda, Eds.), Sage Publications. (Kenneth G. Manton and Eric Stallard)

"Changes in the age dependence of mortality and disability: Cohort and other determinants." *Demography* 34(1):135-157. (Kenneth G. Manton, Eric Stallard, and Larry Corder)

"Chronic disability trends in elderly United States populations 1982–1994." *Proceedings of the National Academy of Sciences* 94:2593-2598. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

"Education specific estimates of life expectancy and age specific disability in the U.S. elderly population: 1982 to 1991." *Journal of Aging & Health* 9(4):419-450. (Kenneth G. Manton, Eric Stallard, and Larry Corder)

"Health and disability differences among racial and ethnic groups." Chapter 3 in *Racial and Ethnic Differences in the Health of Older Americans*. Committee on Population, National Research Council, Washington, DC, pp. 43-104. (Kenneth G. Manton and Eric Stallard)

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“Investing Social Security assets in the securities markets.” *Issue Brief*, American Academy of Actuaries, Washington, DC, March 2007. Buffin KG, Burrows EE, Callahan ME, Gebhardsbauer R, Klieber EJ, Mindlin DD, Schobel BJ, Sinclair SH, Stallard E, Steiner KA, Weiss J, Weisz LM)

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2006

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2005

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“Morbidity improvement and its impact on LTC insurance pricing and valuation.” *Record of the Society of Actuaries* 30(1): Session #107PD, September 2004. (Stallard, E., Wolf, R.M., Weltz, S.A.)

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“Long-Term Care Insurance Compliance with the NAIC LTCI Model Regulation Relating to Rate Stability.” *Health Practice Council Practice Note – May 2003*, American Academy of Actuaries, Washington, DC, 2003. (Stallard, E., Abroe, M.S., Boerner, M.W., Carroll, W., Foley, T.C., Glickman, J.M., Jay, B.D., Munson, B.L., Sperka, S.P., Stahl, B.A., Weller, W.C., and Yee, R.K.W.)

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“*Factors Affecting Retirement Mortality.*” Society of Actuaries, Schaumburg, Illinois, 2002. <http://www.soa.org/sections/farm/farm.html> (Sze, M., Brown, R., Campbell, R., Guterman, S., Rappaport, A., Schobel, B., Stallard, E., and Wade, A.)

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“An actuarial perspective on the Social Security Trustees Report.” *Issue Brief*, American Academy of Actuaries, Washington, DC, May 2001. (Bruce D. Schobel, Edward E. Burrows, Eli N. Donkar, Ronald Gebhardsbauer, Stephen G. Goss, C. David Gustafson, Eric J. Klieber, Adrien R. LaBombarde, Richard G. Schreitmueller, Ronald L. Solomon, Eric Stallard, and Cori E. Uccello)

“Annuitization of Social Security individual accounts.” *Issue Brief*, American Academy of Actuaries, Washington, DC, November 2001. (Bruce D. Schobel, Edward E. Burrows, Eli N. Donkar, Ronald Gebhardsbauer, Stephen G. Goss, C. David Gustafson, Eric J. Klieber, Adrien R. LaBombarde, Richard G. Schreitmueller, Ronald L. Solomon, Eric Stallard, and Cori E. Uccello)

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“Federal tax incentives for long-term care insurance: Actuarial issues and public policy implications.” *Issue Brief*, American Academy of Actuaries, Summer 2001. (Eric Stallard, Malcolm A. Cheung, James M. Glickman, Timothy Gustafson, Paul Janus, Walter T. Liptak, Bartley L. Munson, Julia Philips, Alwyn V. Powell, Bruce A. Stahl, Gordon R. Trapnell, and Robert K. Yee)

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“The new face of aging: Panel discussion on aging and health” moderated by Anna M. Rappaport. *The Actuary* 35(7): 4-8, September, 2001.

2000

“Product of the future? The role of long-term care insurance.” Panel discussion moderated by Anna M. Rappaport. *The Actuary* 34(7): 1-14, September 2000.

“Quantitative measures for evaluating Social Security reform proposals.” *Issue Brief*, American Academy of Actuaries, Spring 2000. (Bruce D. Schobel, Edward E. Burrows, C. David Gustafson, Eric J. Klieber, Adrien R. LaBombarde, Richard G. Schreitmueller, Eric Stallard, and Cori E. Uccello)

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“Discussion of ‘Combining life table data’ by Gilbert W. Fellingham and H. Dennis Tolley.” *North American Actuarial Journal* 3(3): 38-39, 1999.

“Women and Social Security.” *Issue Brief*, American Academy of Actuaries, February 1999. (Edward E. Burrows, C. David Gustafson, Eric J. Klieber, Adrien R. LaBombarde, Julie D. Pope, Richard G. Schreitmueller, Bruce D. Schobel, Eric Stallard, and Cori E. Uccello)

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“Non-insured home and community-based care.” *Record (Society of Actuaries)* 24(3) Session 95PD: 8-15 (<http://www.soa.org/library/8ny95pd.pdf>).

“Social adequacy and individual equity in Social Security.” *Issue Brief*, American Academy of Actuaries, Fall 1998. (Dwight K. Bartlett III, Jerald L. Bogart, Edward E. Burrows, C. David Gustafson, Michael O. Khalil, Eric J. Klieber, Adrien R. LaBombarde, Julie D. Pope, Bruce D. Schobel, Eric Stallard, and Cori E. Uccello)

Social Insurance. (Actuarial Standard of Practice No. 32), Actuarial Standards Board, 1998. (Jerald L. Bogart, Joseph A. Applebaum, Edward E. Burrows, Richard S. Foster, Stephen C. Goss, C. David Gustafson, Krzysztof M. Ostaszewski, Julie D. Pope, Bruce D. Schobel, Ronald L. Solomon, Eric Stallard, Kenneth A. Steiner, and John A. Wandishin)

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“Raising the retirement age for Social Security.” *Issue Brief*, American Academy of Actuaries, Fall 1997. (Jerald L. Bogart, Edward E. Burrows, C. David Gustafson, Michael O. Khalil, Julie D. Pope, Bruce D. Schobel, Eric Stallard, and Kenneth A. Steiner)

“Social Security benefits: Changes to the benefit formula and taxation.” *Issue Brief*, American Academy of Actuaries, Fall 1997. (Jerald L. Bogart, Edward E. Burrows, C. David Gustafson, Michael O. Khalil, Julie D. Pope, Bruce D. Schobel, Eric Stallard, and Kenneth A. Steiner)

OTHER PUBLICATIONS (4)

2002

Abstract of “Estimates of prevalence and trends in old-age disability: Another look using data from the National Long-Term Care Surveys.” In *Final Program and Abstracts*, Population Association of America, 2002 Annual Meeting, Session 140, 2002. (Corder, L.S., Land, K.C., and Stallard, E.)

Abstract of “Trajectories of disability and mortality for the U.S. elderly population from 1984 to 1994.” *The Gerontologist* 42(Special Issue I):195, 2002.

“Underlying and multiple cause mortality at advanced ages: United States 1980–1998.” Presented at the Society of Actuaries Conference, Living to 100, Orlando, January 17-18, 2002.

Available at <http://www.soa.org/ccm/content/research-publications/research-projects/living-to-100-and-beyond-survival-at-advanced-ages/>

1999

“Decreasing morbidity will affect LTC insurance.” *LTC News & Comment: News and Views on the Financing of Long-Term Care* 9(11): 1-3, 1999.

APPENDIX B

APPENDIX B: CURRICULUM VITAE**P. J. Eric Stallard, A.S.A., M.A.A.A., F.C.A**

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Personal Data

Home Address: PO Box 71717, Durham, NC 27722-1717
 Year of Birth: 1949
 Citizenship: U.S.

Current Positions

Research Professor, Department of Sociology (2006–2011) & Center for Population Health and Aging (2007–2011), Duke University, Durham, NC
 Member of the 2007 Technical Panel on Assumptions and Methods, Social Security Advisory Board, Washington, DC (2006–2007)
 Member of the Medical Advisory Council, Genworth Financial, Inc. (2005–2007)
 Deputy Editor, *Demography* (2007–2010)

Previous Positions

2006	Instructor, Department of Sociology, Duke University, Durham, NC
2003–2006	Member of the Board of Directors of the American Academy of Actuaries
2002	Instructor, Department of Sociology, Duke University, Durham, NC
2001–2003	President of the Triangle Area Population Society
2000	Instructor, Department of Sociology, Duke University, Durham, NC
1999–2001	Vice President of the Triangle Area Population Society
1998	Instructor, Department of Sociology, Duke University, Durham, NC
1996–2006	Associate Director for Management and Planning, Center for Demographic Studies, Duke University, Durham, NC
1995–2006	Research Professor of Demographic Studies, Center for Demographic Studies, Duke University, Durham, NC
1992–1995	Associate Research Professor, Center for Demographic Studies, Duke University, Durham, NC
1989–1992	Research Associate, Center for Demographic Studies, Duke University, Durham, NC

1979–1989	Statistical Research Analyst, Center for Demographic Studies, Duke University, Durham, NC
1976–1979	Senior Computer Programmer, Center for Demographic Studies, Duke University, Durham, NC
1973–1975	Senior Computer Programmer, Center for Demographic Studies and Dept. of Sociology, Duke University, Durham, NC
1972–1973	Computer Programmer, Dept. of Sociology, Duke University, Durham, NC
1971–1973	Research Technician, Adult Psychiatric Division, Duke University Medical Center, Durham, NC

Awards/Honors

2006	Appointed Deputy Editor, <i>Demography</i> (2007–2010)
2006	Appointed Member of the 2007 Technical Panel on Assumptions and Methods, Social Security Advisory Board
2003	Elected Member of the Board of Directors of the American Academy of Actuaries (2003–2006)
2003	Awarded Membership as a Fellow of the Conference of Consulting Actuaries
2002	Appointed Chair of the American Academy of Actuaries Federal and State Long-Term Care Task Forces
2002	Appointed Member of the Scientific Review Board of the journal <i>Demographic Research</i> , published by the Max Planck Institute for Demographic Research (MPIDR)
2002	Elected Member of the Society of Actuaries Long-Term Care Insurance Section Council (2002–2005)
2001	Appointed Chair of the American Academy of Actuaries Long-Term Care Work Group
1999	Elected Member of the National Academy of Social Insurance
1999	Elected Vice-President and President-Elect (2001–2003) of the Triangle Area Population Society
1999	First Prize for paper “Retirement and health: Estimates and projections of acute and long-term care needs and expenditures of the U.S. elderly population.” Society of Actuaries: Retirement Needs Framework Conference (Dec. 1998)
1998	Appointed Chair of the American Academy of Actuaries Task Force on Long-Term Care
1997	Appointed Vice-Chair of the American Academy of Actuaries Committee on Long-Term Care
1996	James A. Shannon Director’s Award, National Institutes of Health, National Institute on Aging
1993	Society of Actuaries Educational Institution Grant for Full-Time Faculty Member Attaining ASA/FSA Status

Major Areas of Interest

Medical Demography
 Health/LTC Actuarial Practice
 Social Insurance

Education

Professional: Associate, Society of Actuaries, 1992
 Member, American Academy of Actuaries, 1993
 Fellow, Conference of Consulting Actuaries, 2003

University: B.S., Psychology, Duke University, 1988
 Secondary: Diploma, Fordham Preparatory School, 1967

Courses Taught

Sociology 224E: Demography of Aging, Fall 1998, Fall 2000, Fall 2002, Spring 2006
 (all with Kenneth C. Land)

Professional Memberships

American Academy of Actuaries (1993–Present)
 American Association for the Advancement of Science (1997–Present)
 American Statistical Association (1992–Present)
 Conference of Consulting Actuaries (2003–Present)
 Gerontological Society of America (1995–Present)
 National Academy of Social Insurance (1999–Present)
 Population Association of America (1988–Present)
 Réseau Espérance de Vie en Santé (International Network on Health Expectancy and the Disability Process 1990–Present)
 Society for Industrial and Applied Mathematics (1985–2000)
 Society of Actuaries (1992–Present)

- Computer Science Section (1993–Present)
- Health Section (1993–Present)
- Investment Section (1993–Present)
- Long-Term Care Insurance Section (1999–Present)

 Southern Demographic Association (1984–Present)
 Triangle Area Population Society (1988–Present; President 2001–2003; Vice-President 1999–2001)

Professional Committees

American Academy of Actuaries

- Board of Directors (2003–2006)
- Federal Long-Term Care Task Force, Chairperson (2002–Present)
- Health Practice Council (2002–Present)
- Long-Term Care Committee (1994–1998; Vice Chairperson: 1997–1998)
- Long-Term Care Task Force, Chairperson (1998–2002)
- Long-Term Care Work Group (1993–1994)
- Medicare Cost Containment Work Group (1997–1998)
- Social Insurance Committee (1995–Present)
- State Health Committee (1998–Present)
- State Long-Term Care Principles-Based Work Group (2005–Present)
- State Long-Term Care Reserving Work Group (2003–2005)
- State Long-Term Care Task Force (2002–Present; Chairperson: 2002–2004)
- State Long-Term Care Work Group, Chairperson (2001–2003)

Social Security Advisory Board

- 2007 Technical Panel on Assumptions and Methods (2006–2007)

Society of Actuaries

- CCRC Experience Task Force (2000–2002)
- CCRC Peer Review Work Group (2000–2002)
- Long-Term Care Experience Committee (1993–2000)
- Long-Term Care Insurance Section Council (2002–2005)
- Work Group on Factors Affecting Retirement Mortality (2000–2003)

Center for Demographic Studies Committees

Anatoli I. Yashin Promotion Committee (2002–2003)

Elizabeth H. Corder Promotion Committee, Chair (1997–1998)

Larry S. Corder Promotion Committee (1997–1998)

Zeng Yi Promotion Committee, Chair (2001–2002)

Zeng Yi Reappointment Committee (2005)

NIA P20 Exploratory Center on the Demography of Aging at Duke University

- Pilot Project Review Committee (1994–1999; Chair: 1995–1999)
- General Advisory and Planning Group (1994–1999)

NIA P30 Center for Longitudinal Analysis in Medical Demography at Duke University

- Pilot Project Review Committee, Chair (1999–2004)
- General Advisory and Planning Group (1999–2004)

Duke University Committees

Arts and Sciences Council (1999–2003, 2004–2006)

Committee on Retirement Policy – Office of the Provost (1998–2003)

Scientific Journal Peer-Review

Demography (1987–1988, 1990–1992, 1995–1998, 2002, 2006; Deputy Editor: 2007–2010)

Demographic Research (2002–Present)

Experimental Gerontology (1995, 1996)

The Gerontologist (1994–1995)

International Journal of Epidemiology (1984, 1986, 1988, 1990–1991, 1993)

International Journal of Forecasting (1992)

Journal of Aging and Health (1995–1996)

Journal of Gerontology (1987–1990)

Journal of the American Statistical Association (1997–1998)

Journal of Risk and Insurance (2006)

Mathematical Population Studies (1992–1993, 1996)

The Milbank Quarterly (1994–1995)

North American Actuarial Journal (1996, 1999, 2001–2006)

Population Research and Policy Review (1994)

Radiation Biology Radioecology (2006)

Research on Aging (1999–2000, 2006)

Social Biology (1999)

Statistics in Medicine (2005)

Expert Witness Testimony

1994 U. S. District Court, Eastern District of New York In re: *Findley v. Falise* (Manville Personal Injury Settlement Trust), March 15 and May 11, 1994.

Academic Consulting

- 2003–2005 Consultant, National Institute on Aging SBIR Grant (through Households and Consumption Forecasting, Inc.): Demographic Tool and Database for Household Forecasting (Phase I).
- 2001–2004 Economic Determinants of Mortality – National Institute of Child Health and Human Development Grant to the University of North Carolina, William H. Dow, Ph.D., Principal Investigator.
- 2000 Health Care Organizations – National Institute on Aging; Georgeanne Patmios, Ph.D., Project Director.
- 1997–1998 PACE Rate Work – Health Care Financing Administration Contract with the Center for Health Systems Research and Analysis, University of Wisconsin-Madison; James M. Robinson, Ph.D., FSA, Principal Investigator.
- 1997–1998 Multi-Stage Cancer Models for Chloroform – U.S. Environmental Protection Agency Contract through Cadmus Group, Inc., Durham, N.C.; William Warren-Hicks, Ph.D., Project Director.
- 1997 Impact of Disability Reductions on National Health Costs – National Institute on Aging; Richard M. Suzman, Ph.D., Project Director.
- 1995 Chloroform Cancer Quantification Study – U.S. Environmental Protection Agency Contract through WMA/Cadmus Group, Inc., Durham, N.C.; Jonathan Butcher, Ph.D., Project Director.
- 1993–1998 Continuing Care Retirement Communities Study – National Institute on Aging SBIR Grant to Actuarial Forecasting and Research, Hollicong, Pennsylvania; Harold Barney, FSA, Principal Investigator.
- 1993 Long-Term Care Needs in Kansas – Kansas Association of Homes for the Aging, Topeka, Kansas; John Grace, Project Director.
- 1992–1998 Seventh Day Adventist Study – National Institute on Aging Grant to Loma Linda University, California; Gary Fraser, M.D., Principal Investigator.
- 1992 Health Forecasting Models for the Elderly and Oldest Old Populations – National Institute on Aging; Richard M. Suzman, Ph.D., Project Director.

Current Research Projects

- 2007 Principal Investigator, Wyeth Pharmaceuticals Grant: Development of an Alzheimer's Disease Cost Effectiveness Model.
- 2005–2010 Senior Investigator, National Institute on Aging Grant 1R01 AG028259: Healthy Life at Risk: The Role of Senescence.
- 2004–2008 Principal Investigator, Veterans Health Administration: Aging Veterans Health Policy Model.
- 2003–2008 Senior Investigator, ASPE Basic Ordering Agreement RFP-15-02-HHS-OS (through Urban Institute Subcontract): Conduct Health, Disability and Long-Term Care Data, Services and Policy Analysis.
- 2004–2007 Principal Investigator, National Council on the Aging Grant: Decision Support Software for Financing Long Term Care.

Pending Research Projects

- 2008–2012 Senior Investigator, National Institute on Aging Grant: Analysis of Health/Well-Being/Survival Status of the US Elderly: A New Approach.
- 2007–2012 Senior Investigator, National Institute on Aging Grant: Evaluating New Genetic Effects on Health and Aging from Longitudinal Data.
- 2007–2012 Senior Investigator, National Institute on Aging Grant: Dynamics of unhealthy life span in the U.S.: Demographic models and analyses.
- 2007–2011 Principal Investigator, National Institute on Aging Grant (through Purdue University): Lack of Personal Assistance among ADL Disabled Older Adults.

Completed Research Projects

- 2005–2006 Senior Investigator, Project 4 of National Institute on Aging Grant 1P01-AG17937: Population Models of Factors Affecting Health Trends – Project 4: Prevalence and Cost of Dementia.
- 2003–2006 Senior Investigator, National Institute on Aging Grant No. U01-AG07198: Functional and Health Changes of the Elderly.
- 2003 Principal Investigator, Veterans Health Administration Grant: Veterans Health Administration Long-Term Care Model.
- 2002–2007 Project Leader, Supplement to National Institute on Aging Grant 1P01-AG17937: Population Models of Factors Affecting Health Trends – Project 8: Projections of Acute & Long-Term Care Needs & Expenditures.

- 2002–2003 Principal Investigator, Wyeth Pharmaceuticals Grant: Updated Alzheimer's Disease Cost Effectiveness Model.
- 2002–2003 Principal Investigator, National Institute on Aging SBIR Grant (through Informed Decisions, Inc.): Internet-Based Dissemination of NLTCS Data (Phase I).
- 2001–2003 Principal Investigator, General Electric Capital Assurance Company Grant: The National Long Term Care Index Project: Phase I.
- 2001–2003 Senior Investigator, National Institute on Aging Grant: Demographic Effects on Elderly Households and Caregiving Needs.
- 2001–2002 Senior Investigator, National Institute on Aging SBIR Grant (through Unicon Corporation): NLTCS Documentation and Extraction Utilities.
- 2000–2006 Senior Investigator, Project 1 of National Institute on Aging Grant 1P01-AG17937: Population Models of Factors Affecting Health Trends – Project 1: Methodological Development of Health Forecasting Model to Integrate Data.
- 2000–2005 Core Leader, Core C of National Institute on Aging Grant 1P01-AG17937: Population Models of Factors Affecting Health Trends – Core C: Forecasts of Changes in Health and Costs of Illness.
- 2000–2005 Senior Investigator, Project 2 of National Institute on Aging Grant 1P01-AG17937: Population Models of Factors Affecting Health Trends – Project 2—Cohort Data.
- 1999–2006 Mentor, National Institute on Aging Grant 1K12-AG00982: Scientific Recruitment for the Demography of Aging.
- 1999–2005 Senior Investigator, National Institute on Aging Grant 1K07-AG00892: Academic Career Leadership Award.
- 1999–2005 Senior Investigator, Core A of National Institute on Aging Grant 2P30-AG12852: Center for Longitudinal Analysis in Medical Demography—Core A—Administration and Research.
- 1999–2005 Senior Investigator, Core D of National Institute on Aging Grant 2P30-AG12852: Center for Longitudinal Analysis in Medical Demography—Core D—External Research Resources Support.
- 1999–2004 Senior Investigator, Project 5 of National Institute on Aging Grant No. 7P01-AG08761: Oldest Old Mortality – Demographic Models and Analyses.
- 1998–2004 Senior Investigator, National Institute on Aging Grant No. 2R01-AG07469: Active Life Expectancy in the Old and Oldest Old Populations.
- 1997–2005 Senior Investigator, ASPE Basic Ordering Agreement RFP-29-96-HHS-OS (through Urban Institute Subcontract): Policy Analysis, Program Assessments, Evaluation and Data Analysis.

- 1998–2000 Principal Investigator, National Institute on Aging SBIR Grant (through NCOA Development Corporation): Decision Support Software for Financing Long Term Care.
- 1997–1998 Senior Investigator, Charles A. Dana Foundation Grant: Analysis of Medical Treatments and Techniques.
- 1997 Principal Investigator, Department of Defense Grant (through 3M Subcontract GS02091): Application of Empirical Bayes Strategies for Generation of Rates of Use Maps.
- 1996–2000 Principal Investigator, National Institute on Aging Grant No. 1R55-AG/OD13986: Forecasting Models for Acute and Long-Term Care.
- 1996–2000 Senior Investigator, National Institute on Aging Grant No. 5R01-AG13254: Population Effect of Chronic Disease and Mortality.
- 1996–1998 Principal Investigator, Bayer Corporation Pharmaceutical Division Grant: The Economic Impact of Slowing the Progression of Alzheimer's Disease.
- 1996–1998 Principal Investigator, Society of Actuaries Grant: Noninsured Noninstitutional Long Term Care Experience.
- 1996–1997 Senior Investigator, National Institute on Aging Grant No. 1R03-AG14191: U.S. Female Breast Cancer Incidence/Mortality & Screening.
- 1995–2000 Senior Investigator, Department of Defense Grant GS02091 (through 3M/HIS): Defense Medical Information System.
- 1994–2007 Senior Investigator, National Institute on Aging Grant No. 5T32-AG00139, Medical Demography and Social Epidemiology of Aging.
- 1994–1999 Senior Investigator, National Institute on Aging Grant No. 5P20-AG12852: Center for Longitudinal Analysis in Medical Demography.
- 1994–1999 Senior Investigator, National Institute on Aging Grant (through Syracuse University): Dynamic Simulation of Elders' Health and Well-Being.
- 1993–1995 Principal Investigator, Manville Personal Injury Settlement Trust: Johns-Manville Asbestos Litigation Project.
- 1993–1995 Senior Investigator, HCFA Contract No. 500-89-0047 (subcontract with Lewin-VHI, Inc.): Long Term Care Studies.
- 1992–1993 Senior Investigator, Parke-Davis Pharmaceutical Division: U.S. Mortality Data Research Project.
- 1991–1996 Senior Investigator, National Institute on Aging Grant No. 1R01-AG08523: A Collaborative Study of Aging in the U.S. and Australia.

- 1991–1992 Senior Investigator, Commonwealth of Pennsylvania Department of Public Welfare: HealthPASS External Assessment.
- 1991–1992 Senior Investigator, Manville Personal Injury Settlement Trust: Johns-Manville Asbestos Litigation Project, Phase I.
- 1991–1992 Senior Investigator, National Institute on Aging Grant No. 2R44-AG03796-02: Making Aging Data Available to Researchers.
- 1989–1993 Senior Investigator, U.S. Environmental Protection Agency Cooperative Agreement No. CR-815811: Development and Use of Statistical and Biological Models in Assessing Environmental Health Effects.
- 1987–2003 Senior Investigator, National Institute on Aging Grant No. 5R01-AG07198: Functional and Health Changes of the Elderly.
- 1987–2003 Senior Investigator, National Institute on Aging Grant No. 5R37-AG07025: Forecasting Life Expectancy and Active Life Expectancy.
- 1986–1992 Senior Investigator, World Health Collaborating Center for Research and Training in the Methods of Assessing Risk and Forecasting Health Status Trends, Duke University.
- 1986 Programmer Analyst, National Institute on Aging and National Center for Health Statistics Interagency Agreement 3D/0IESP: Development of Person-Based Data File from NHIS 1969–1981.
- 1985–1991 Statistical Analyst/Programmer Analyst, Health Care Financing Administration Grant No. 500-85-0042: Evaluation of Social/Health Maintenance Organization Demonstrations.
- 1985–1986 Member, Sloan Foundation Grant No. 85-6-19: Interdisciplinary Program for Population-Based Model Development, Duke University.
- 1985–1986 Statistical Analyst/Programmer Analyst, Veteran's Administration Grant No. 83-27: Spinal Cord Injury Mortality Study – Validation and Pilot Study.
- 1984–1990 Senior Research Analyst, Health Care Financing Administration Cooperative Agreement No. 18-C-98641: A National and Cross-National Study of the Long-Term Care Population.
- 1984–1985 Statistical Analyst, Health Care Financing Administration Grant No. 18-P-97710/4-04S1&S2: Extension (of 18-P-97710) to Examine Characteristics of the Type D Facility (Nursing Home) Residents of the Supplemental Security Income Population using Multivariate Statistical Procedures.
- 1984–1985 Statistical Programmer/Consultant, United Nations Children Fund project: Ethiopian Local Area Estimation.
- 1983–1986 Statistical Analyst/Programmer Analyst, National Science Foundation Grant No. SES8219315: Management Science Models of Complex Human Institutional Processes.

- 1982–2000 Senior Investigator, National Institute on Aging Grant No. 5R37-AG03188: Longitudinal Models of Correlates of Aging and Longevity.
- 1982–1985 Programmer Analyst, Social Security Administration Contract No. SSA-82-0153 & 600-84-0244: Development of File of Multiple Causes of Death for Decedents of the Retirement History Survey Study Population.
- 1982–1983 Statistical Analyst/Programmer Analyst, Congressional Research Office, Library of Congress, Contract No. 82-62: Evaluation of Methodology Used to Estimate Population at Risk from Asbestos-Related Disease.
- 1981–1990 Statistical Analyst/Programmer Analyst, National Institute of Mental Health Grant No. 2U01-MH35386: Epidemiologic Catchment Area Program, Duke University.
- 1980–1990 Senior Research Analyst, Environmental Protection Agency Cooperative Agreement Nos. CR807465 & CR811090-01-0: Methods for Ecological Mortality and Morbidity Analysis.
- 1980–1984 Statistical Analyst, Health Care Financing Administration Grant No. 18-P-97710: Bioactuarial Estimates and Forecasts of Health Care Needs and Disability.
- 1979 Programmer Analyst, U.S. Centers for Disease Control Contract No. 7590943, PHS-1979: Multiple Cause Mortality Data and Life Tables.
- 1978–1983 Programmer Analyst, National Cancer Institute Grant No. 23399: Certification of Cancer-Related Deaths.
- 1978 Statistical Analyst/Consultant, Office of Technology Assessment, U.S. Congress, Washington, D.C. Effects on life expectancy of eliminating pneumonia: preparation of prevalence estimates using multiple cause of death (death certificate) data, in conjunction with a cost-benefit study of a pneumonia vaccine.
- 1976–2006 Senior Investigator, National Institute on Aging Grant No. 5R01-AG01159: A Demographic Study of Multiple Cause of Death.
- 1976 Statistical Programmer, Simulation of morbidity and mortality processes in the U.S. veteran population, Duke University (for the National Academy of Sciences).
- 1975–1977 Statistical Programmer/Analyst, Development of mathematical procedures and computer software for the Markov Network analysis of covariance matrices, Duke University.
- 1975 Statistical Programmer, Designed and implemented generalized spreadsheet program for demographic and actuarial analyses of mortality and morbidity data, Duke University.

- 1975 Statistical Programmer/Analyst, Designed and implemented procedures for the discriminant analysis of differentially weighted population samples, Duke University.
- 1974–1975 Statistical Programmer, Designed and implemented a program to prepare reports on inconsistencies of response codes to sample survey questions in large data files, Duke University.
- 1974 Statistical Programmer, Modified and implemented programs to process the public use sample files of the 1970 U.S. Census, Duke University.
- 1973 Statistical Programmer/Analyst, Designed and implemented a set of programs to perform regression, canonical, discriminant, multicollinearity, two and three stage least squares, and factor analysis, Duke University.
- 1972–1973 Statistical Programmer, Computer production runs involving the analysis of political party workers in the U.S. and Canada, Duke University.
- 1971–1973 Statistical Programmer/Analyst, Research into the statistical problems of using Q-methodology as an evaluation method for the study of change in a clinical setting, Duke University.
- 1971 Statistical Programmer/Consultant, Rhine Research Center/Institute for Parapsychology, Durham, N.C.

BOOKS AND MONOGRAPHS (7)

Chronic Disease Modelling, Charles Griffin Limited, London, England, 1988. (Kenneth G. Manton and Eric Stallard)

Forecasting Product Liability Claims: Epidemiology and Modeling in the Manville Asbestos Case. Springer Verlag, New York, 2005. (Eric Stallard, Kenneth G. Manton, and Joel E. Cohen)

Long Term Care: Actuarial Implications of Health Care Reform, No. 16 in Monograph Series on Health Care Reform. American Academy of Actuaries, Washington, DC, 1994. (Harold L. Barney, Bartley L. Munson, Dennis L. Dewitt, Malcolm A. Cheung, Eric Stallard, and Vincent L. Bodnar)

Long Term Care: Actuarial Issues in Designing Voluntary Federal-Private LTC Insurance Programs. American Academy of Actuaries, Washington, DC, 1999 (<http://www.actuary.org/pdf/health/LTC.pdf>). (Harold L. Barney, Eric Stallard, Vincent L. Bodnar, Malcolm A. Cheung, Loretta Jacobs, Paul Janus, Walter T. Liptak, Bartley L. Munson, Alwyn V. Powell, Gordon R. Trapnell, and Robert K. Yee)

Recent Trends in Mortality Analysis, Academic Press, Orlando, 1984. (Kenneth G. Manton and Eric Stallard)

Social Security Reform Options. Public Policy Monograph, American Academy of Actuaries, Washington, DC, 2007. (Buffin KG, Burrows EE, Gebhardsbauer R,

Klieber EJ, Randall RJ, Robberson PW, Schobel BJ, Stallard E, Steiner KA, Weiss J, Weisz LM)

U.S. Cancer Mortality Rates and Trends, 1950–1979. Vol. IV: Maps. USEPA.600, USGPO, Washington, D.C., 1987. (W.B. Riggan, J.P. Creason, W.C. Nelson, K.G. Manton, M.A. Woodbury, Eric Stallard, and A.C. Pellom)

SCIENTIFIC ARTICLES (112)

IN PREPARATION

“Estimates of the incidence, prevalence, duration, intensity, and cost of chronic disability among the U.S. elderly.” To be presented at the Society of Actuaries Conference, *Living to 100: Survival to Advanced Ages*, Orlando, January 7–9, 2008.

“The expected outcomes and costs of U.S. patients with incident suspected Alzheimer's disease (AD) over 15 years.” (Kinosian, B., Stallard, E., Manton, K.G., Straley, D.L., Zbrozek, A., and Glick, H.A.)

“Report to the Social Security Advisory Board.” Social Security Advisory Board, Washington, DC, 2007. (2007 Technical Panel on Assumptions and Methods [Dan Crippen, Eric Stallard, et al.]).

IN REVIEW

“Analysis of the natural history of dementia using longitudinal Grade of Membership models.” In review at *Demographic Research*. (Stallard, E., Sloan, F.)

2007

“Aging: Long-term care.” In press at the *Encyclopedia of Public Health* (H. Kristian Heggenhougen, Ed.), Elsevier Inc., Oxford, U.K., 2007.

“Projected use of long term care services among enrolled veterans.” In press at *The Gerontologist*. (Kinosian, B., Stallard, E., Wieland, D.)

“The random walk model of human aging and mortality: The Fokker-Planck, state-space, and force of mortality equations.” *First International Workshop on Constructal Theory of Social Dynamics*, Duke University, April 4–5, 2006. Accepted for publication by Springer in special volume edited by Adrian Bejan and Kenneth Land. (Kenneth G. Manton, Kenneth C. Land, and Eric Stallard)

“Trajectories of morbidity, disability, and mortality among the U.S. elderly population: Evidence from the 1984–1999 NLTCS.” In press at the *North American Actuarial Journal*.

2006

“Demographic issues in longevity risk analysis.” *Journal of Risk and Insurance* 73(4):575–609.

“Disease patterns in multiple-cause data at advanced ages: United States 1980–1998.” In *Proceedings of the International Collaborative Effort on Automating Mortality Statistics, Volume III* (Heron, M., Miniño, A.M., and Rosenberg, H.M., eds.), National Center for Health Statistics, Hyattsville, MD, pp. 73–96.

2005

“Endothelial progenitor cell therapy for atherosclerosis: The philosopher’s stone for an aging population.” *Science of Aging Knowledge Environment* 2005(25), pe18, June 22, 2005. (Julia Kravchenko, Pascal J. Goldschmidt-Clermont, Tiffany Powell, Eric Stallard, Igor Akushevich, Michael S. Cuffe, and Kenneth G. Manton)

“Trajectories of disability and mortality among the U.S. elderly population: Evidence from the 1984–1999 NLTCS.” Chapter in *Living to 100 and Beyond Monograph*, Society of Actuaries Online Monographs, 2005.
http://library.soa.org/library-pdf/m-li05-1_XXVII.pdf

2004

“Computing time-varying sex-age-specific rates of marriage/union formation and dissolution in family household projection or simulation.” *Demographic Research* 11:263–304, December 2004. (Zeng, Y., Stallard, E., and Wang, Z.)

2003

“Diseases, chronic and degenerative.” In *The Encyclopedia of Population, Revised Edition* (Paul Demeny and Geoffrey McNicoll, eds.), Macmillan Reference USA, New York, 2003, Vol. 1, pp. 253–258.

“Underlying and multiple cause mortality at advanced ages: United States 1980–1998.” In *Living to 100 and Beyond: Survival at Advanced Ages Symposium*, Society of Actuaries Online Publications, 2003.
<http://www.soa.org/ccm/content/research-publications/research-projects/living-to-100-and-beyond-survival-at-advanced-ages/>

2002

“Underlying and multiple cause mortality at advanced ages: United States 1980–1998.” *North American Actuarial Journal* 6(3): 64–87.
http://library.soa.org/library/naaj/1997-09/naaj0207_7.pdf

2001

“Product liability forecasting for asbestos-related personal injury claims: A multidisciplinary approach.” Chapter 13 in *Population Health and Aging: Strengthening the Dialogue Between Epidemiology and Demography – Annals of the New York Academy of Sciences*, (M. Weinstein, A.I. Hermalin, and M.A. Stoto, Eds.), Volume 954, December 2001, pp. 223–244. ISBN 1-57331-372-6.

2000

“Non-Insured Home and Community-Based Long-Term Care Incidence and Continuance Tables.” Actuarial Report issued by the Long-Term Care Experience

Committee, Society of Actuaries, Schaumburg, IL, March 2000. (Eric Stallard and Robert K. Yee)
[\(http://www.soa.org/ccm/content/areas-of-practice/special-interest-sections/long-term-care-insurance/actuarial/papers-presentations-research-resources/ltdi-home-and-community/\)](http://www.soa.org/ccm/content/areas-of-practice/special-interest-sections/long-term-care-insurance/actuarial/papers-presentations-research-resources/ltdi-home-and-community/)

“Predicting 10-year care requirements for older people with suspected Alzheimer's disease.” *Journal of the American Geriatrics Society* 48(6): 631-638. (Bruce Kinoshian, Eric Stallard, Jason Lee, Max A. Woodbury, Arthur Zbrozek, and Henry A. Glick)

“Retirement and health: Estimates and projections of acute and long-term care needs and expenditures of the U.S. elderly population.” Chapter 15 in *Retirement Needs Framework*, SOA Monograph M-RS00-1, pp 159-207, Society of Actuaries, Schaumburg, IL.

1999

“The limits of longevity and their implications for health and mortality in developed countries.” In *Proceedings of the UN-CBGS Symposium on Health and Mortality*. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

1998

“The dynamics of dimensions of age related disability 1982 to 1994 in the U.S. elderly population.” *Journal of Gerontology: Biological Sciences* 53A: B59-B70. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

“Economic effects of reducing disability.” *American Economic Review* 88(2):101-105, 1998. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

“Forecasting methods for HIV/AIDS and aging.” In *Research on Aging* 20(6) (Special Issue: Ory, MG, Zablotsky, D. eds) pp. 846-864, 1998. (Kenneth G. Manton and Eric Stallard)

1997

“Non-white and white age trajectories of mortality: Evidence from extinct cohort analyses, 1950 to 1992.” Chapter 2 in *Minorities, Aging, and Health* (K. Markides and M. Miranda, Eds.), Sage Publications. (Kenneth G. Manton and Eric Stallard)

“Changes in the age dependence of mortality and disability: Cohort and other determinants.” *Demography* 34(1):135-157. (Kenneth G. Manton, Eric Stallard, and Larry Corder)

“Chronic disability trends in elderly United States populations 1982–1994.” *Proceedings of the National Academy of Sciences* 94:2593-2598. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

“Education specific estimates of life expectancy and age specific disability in the U.S. elderly population: 1982 to 1991.” *Journal of Aging & Health* 9(4):419-450. (Kenneth G. Manton, Eric Stallard, and Larry Corder)

“Health and disability differences among racial and ethnic groups.” Chapter 3 in *Racial and Ethnic Differences in the Health of Older Americans*. Committee on Population, National Research Council, Washington, DC, pp. 43-104. (Kenneth G. Manton and Eric Stallard)

“Monitoring changes in the health of the U.S. elderly population: Correlates with biomedical research and clinical innovations.” *The FASEB Journal* 11(12):923-930. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

1996

“Change in health, mortality, and disability and their impact on long term care needs.” Co-published simultaneously in *Journal of Aging & Social Policy* 7(3/4):25-52; and in *From Nursing Homes to Home Care* (M.E. Cowart and J. Quadagno, Eds.), pp. 25-52, Haworth Press, New York. (Kenneth G. Manton and Eric Stallard)

“Longevity in the U.S.: Age and sex specific evidence on life span limits from mortality patterns 1960–1990.” *Journal of Gerontology: Biological Sciences* 51A(5):B362-B375. (Kenneth G. Manton and Eric Stallard)

“Means testing and Social Security.” *Contingencies (American Academy of Actuaries)* 8(6):24-26. (Jerald L. Bogart, James A. Beirne, Richard S. Foster, Stephen C. Goss, Benjamin I. Gottlieb, C. David Gustafson, Gregory J. Savord, Bruce D. Schobel, Ronald L. Solomon, Eric Stallard, and Michael M.C. Sze)

“Privatizing Social Security.” *Contingencies (American Academy of Actuaries)* 8(4):24-30. (Jerald L. Bogart, James A. Beirne, Richard S. Foster, Stephen C. Goss, Benjamin I. Gottlieb, C. David Gustafson, Gregory J. Savord, Bruce D. Schobel, Ronald L. Solomon, Eric Stallard, and Michael M.C. Sze)

1995

“Changes in morbidity and chronic disability in the U.S. elderly population: Evidence from the 1982, 1984, and 1989 National Long Term Care Surveys.” *Journal of Gerontology: Social Sciences* 50B:S194-S204. (Kenneth G. Manton, Eric Stallard, and Larry S. Corder)

“The effects of health histories on stochastic process models of aging and mortality.” *Journal of Mathematical Biology* 33:1-16. (Anatoli I. Yashin, Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

“Program payment and utilization trends for Medicare beneficiaries with disabilities.” Chapter 6 in *Persons with Disabilities: Issues in Health Care Financing and Service Delivery* (J.M. Wiener, S.B. Clauer, and D.L. Kennell, Eds.). Brookings Institution, Washington, pp. 117-163. (Kenneth G. Manton and Eric Stallard)

“Sex differences in human mortality and aging at late ages: The effects of mortality selection and state dynamics.” *The Gerontologist* 35:597-608. (Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

“Strategies to maximize health and functioning as well as to increase life expectancy.” Chapter in *Resources and Population* (B. Colombo, P. Demeny, and M. Perutz, Eds.). Oxford University Press, New York, earlier version published in *Scripta Varia*, 1993. (Kenneth G. Manton and Eric Stallard)

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“Estimates of the incidence, prevalence, duration, intensity, and cost of chronic disability among the U.S. elderly.” To be presented at the Society of Actuaries Conference, *Living to 100: Survival to Advanced Ages*, Orlando, January 7–9, 2008.

2007

“Introduction to Medical Demography.” To be presented at the Society of Actuaries *2007 Annual Meeting*, Washington, DC, October 14-17, 2007.

“Multivariate Fixed-Effects Longitudinal Grade of Membership Models for Panel Data with Applications to Disability and Dementia in the NLTCS.” Presented at the *DuPRI Colloquia Series*, Duke University, April 26, 2007.

2006

“Demographic issues in longevity risk analysis.” Presented at *The Eighth Bowles Symposium and The Second International Longevity Risk and Capital Market Solutions Symposium*, Chicago, IL, April 24, 2006.

“Differences in the utilization of LTC services at late ages by sex, socioeconomic status, and marital status.” Presented at the *Fifth Annual Medical Advisory Council Conference*, Genworth Financial Long Term Care Division, Washington, DC, September 21, 2006.

“Longitudinal Grade of Membership Analysis and its Application.” Presented at the *Demography, Life Course, and Aging Workshop*, Duke University, April 25, 2006.

“Principles-based Methodology and Health: LTC and Beyond.” Presented at *American Academy of Actuaries 2006 Spring Meeting*, Washington, DC, May 16, 2006. (Lautzenheiser, B., Stallard, E., and Bykerk, C.)

2005

“Forecasting LTC needs and expenditures for elderly individuals.” Presented at the *Fourth Annual Medical Advisory Council Conference*, Genworth Financial Long Term Care Division, Washington, DC, September 21, 2005.

“Morbidity and mortality among the non-LTC-insured U.S. elderly population 1984–1999.” Presented at *The 5th Annual Intercompany Long-Term Care Insurance Conference*, Society of Actuaries, January 24–26, 2005.

“Trajectories of disability and mortality among the U.S. elderly population: Evidence from the 1984–1999 NLTCS.” Presented at the *Living to 100 and Beyond: Survival at Advanced Ages Symposium*, Society of Actuaries, January 12–14, 2005.

2004

“Morbidity improvement and its impact on LTC insurance pricing and valuation.” Panel Discussion at the Society of Actuaries *Anaheim Spring Meeting*, Anaheim, CA, May 19–21, 2004.

“Temporal trends in morbidity, disability, and mortality rates among the U.S. elderly.” Presented at the *Demography, Life Course, and Aging Workshop*, Duke University, November 11, 2004.

“Temporal trends in rates of severe disability among the U.S. elderly, 1984–1999.” Presented at the *NLTCS Fall Conference – Spotlight on Research*, Washington, DC, November 22, 2004.

“Trajectories of disability and mortality among the U.S. elderly population: Evidence from the NLTCS.” Presented at the *Research Workshop on Longevity*, Duke University, Durham, NC, March 11–13, 2004.

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2003

“Discussant, Session 456: Longitudinal Relations between Aspects of Health and Disability.” Presented at the PAA Annual Meeting, May 1–3, 2003, Minneapolis.

"Looking into the LTC crystal ball." Presented at the 16th Private Long Term Care Insurance Conference, February 12–14, 2003, San Antonio, TX.

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"Long-term care strategies for baby-boomers." Presented at the Conference of Consulting Actuaries 2002 Annual Meeting, November 3–6, 2002, Amelia Island, FL.

"The policy applications of different definitions of disability." Presented at the NCHS Workshop *Progress in Estimating Active Life Expectancy*, Hyattsville, MD, October 9, 2002.

"Underlying and multiple cause mortality at advanced ages: United States 1980–1998." Presented at the Society of Actuaries Conference, Living to 100, Orlando, January 17–18, 2002.

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"Understanding Secondary Differences in LTC Experience." Presented at the Society of Actuaries Spring Meeting, June 24–26, 2002, San Francisco.

2001

"Estimates of the incidence, prevalence, and duration of chronic disability among the U.S. elderly." Presented at the 2001 Annual Meeting of the Population Association of America, Washington, D.C., March 29–31, 2001.

"Multivariate trajectories of disability and mortality at advanced ages: United States 1984–1994." Presented at the Southern Demographic Association Annual Meeting, Miami, October 11–13, 2001. (Eric Stallard and Max A. Woodbury)

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"Actuarial applications of the National Long Term Care Survey." Presented at the Demography, Life Course, and Aging Workshop, Duke University Department of Sociology, September 27, 2000.

1999

"Changes in the age dependence of mortality and disability: Cohort and other determinants." Presented at the Demography, Life Course, and Aging Workshop, Duke University Department of Sociology, January 20 and 27, 1999.

"Retirement and health: Estimates and projections of acute and long-term care needs and expenditures of the U.S. elderly population." Presented at the Demography, Life Course, and Aging Workshop, Duke University Department of Sociology, September 23, 1999. Chapter 15 in *Retirement Needs Framework*, SoA Monograph M-RS00-1, January 2000, Society of Actuaries: Schaumburg, IL, pp. 159-208.

1998

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"Non-insured home and community-based long-term care incidence and continuance tables--Report of the Non-Insured Home and Community Experience Subcommittee of the Long-term Care Experience Committee." Presented at the Society of Actuaries Annual Meeting, New York, October 20, 1998. In *Record* 24(3) Session 95PD: 8-15 (<http://www.soa.org/library/8ny95pd.pdf>).

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"Living to 130." Interview segment on *Early Prime*, CNN-TV, Atlanta, Georgia, January 30, 1997.

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“The natural history of Alzheimer’s disease in the National Long Term Care Survey.” Presented at the Alzheimer’s Disease Economic Model Meeting, Bayer Corporation Pharmaceutical Division, Philadelphia, Pennsylvania, April 30, 1997.

1996

“Long term care noninsured noninstitutional experience report.” Presented at the Society of Actuaries Spring Meeting, Colorado Springs, Colorado, June 26–28, 1996. (Eric Stallard and Robert K.W. Yee)

“Longevity in the United States.” Interview segment on *North Carolina Now*, WUNC-TV, Research Triangle Park, N.C., September 16, 1996.

1995

“Data on older adults: Some comments.” Presented at the Meeting on Disability Data for Disability Policy, sponsored by the ASPE Office of Disability, Aging, and Long-Term Care Policy, U.S. Dept. of Health and Human Services, Washington, D.C., March 31, 1995.

“Incidence and continuance for noninstitutional long term care.” Presented at the Society of Actuaries Spring Meeting, Vancouver, British Columbia, June 26–28, 1995. In *Record (Society of Actuaries)* 21(3B):557-591. (P.J. Eric Stallard, Robert K.W. Yee, and James M. Robinson)

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1994

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“Changes in Part A and B Medicare use by the U.S. elderly, disabled population.” Presented at the conference on Long Term Care: Current Issues in Financing and Delivery, Brookings Institution, Washington, D.C., Nov. 3, 1994.

“Estimates and projections of asbestos-related diseases and exposures among Manville Personal Injury Settlement Trust claimants, 1990–2049.” Presented to U.S. District Court, Eastern District of New York, Judge Jack B. Weinstein presiding, September 7, 1993, and entered into testimony March 15, 1994.

“Ethnic health and disability differences in the U.S. elderly population.” Presented at the Workshop on Racial and Ethnic Differences in Health in Late Life, sponsored by the National Institute on Aging and the National Research Council Commission on Behavioral and Social Sciences and Education, Washington, D.C., December 12–13, 1994.

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"Projections of asbestos-related personal injury claims against the Manville Personal Injury Settlement Trust, males 1990–2049, by occupation, date of first exposure, and type of claim." Submitted to U.S. District Court, Eastern District of New York, as sworn testimony, Judge Jack B. Weinstein presiding, March 15, 1994.

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"Generalizations of the Gompertz model for describing mortality at advanced ages: The role of time varying covariates." Presented at the Research Workshop on Oldest-Old Mortality, sponsored by the National Institute on Aging, Duke University, Durham, N.C., March 4–6, 1993.

"Grade of Membership analysis made simple." Presented at the Population Studies Seminar Series, sponsored by the Center for Demographic Studies and the Department of Sociology, Duke University, Durham, N.C., April 22, 1993.

1992

"Medical demography of aging: Cohort analysis, staging of disease in the life cycle, models of disability and mortality, and long-term care." Presented at the National Research Council, National Academy of Sciences Committee on Population Workshop on The Demography of Aging, Washington, D.C., Dec. 10–11, 1992. (Eric Stallard and Kenneth G. Manton)

"The projected demand for cancer care, the supply of facilities and the personnel needed to meet it." Presented at the Workshop on the Burden of Formal and Informal Costs of Cancer on the Family, National Cancer Institute, Bethesda, Maryland, April 23–24, 1992.

1991

"Compartment models of the temporal variation of population lung cancer risks." Presented at the 13th IMACS World Congress on Computation and Applied Mathematics, Dublin, Ireland, July 22–26, 1991.

"Morbidity and mortality issues in developing countries in the post-reproductive years." Presented at the Workshop on the Policy and Planning Implications of the Epidemiological Transition in Developing Countries, Committee on Population, National Research Council, National Academy of Sciences, Washington, D.C., November 20–22, 1991.

1990

“Demographics of breast cancer in older women.” Presented at the Forum for Breast Cancer Screening in Older Women, sponsored by National Cancer Institute, National Institute on Aging, Health Care Financing Administration, and University of Massachusetts, July 30 to August 2, 1990.

“The long term care market place: Issues and marketing strategies.” Presented at the Seventh Annual Midyear Meetings of the Pharmaceutical Manufacturers Association, Short Hills, N.J., Sept. 26–28, 1990. (Eric Stallard and Joshua S. Pollatsek)

1985

“Estimating the parameters of a nonnegative definite quadratic form using a Cholesky decomposition.” Presented at the Second SIAM Conference on Applied Linear Algebra, Society for Industrial and Applied Mathematics, Raleigh, N.C., April 30, 1985.

1984

“Recent trends in multiple cause mortality in the United States, 1968 to 1980: Select observations.” Presented at Southern Regional Demographic Group meetings, Orlando, Florida, October 17, 1984.

1982

“Estimating parameters of a positive semi-definite quadratic form.” Poster session presented at the Society for Industrial and Applied Mathematics meeting, Raleigh, N.C., April 26, 1982. (Eric Stallard and Max A. Woodbury)

“Matrix methods for compartmental model estimation of demographic health state and mortality transitions.” Presented at the Society for Industrial and Applied Mathematics meeting, Raleigh, N.C., April 26, 1982.

1976

“Odds and the order of finish in horse racing.” Presented at the Third Gamblers' Conference sponsored by the Western Regional Economics Society, Las Vegas, Nevada, December 20–22, 1976. (Harold Schiffman and Eric Stallard)

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2006

“Extensions of the Random Walk Model of Human Aging and Mortality: Generalization of the Fokker-Planck Equations.” *First International Workshop on Constructual Theory of Social Dynamics*, Duke University, April 4–5, 2006. (Manton, K.G., Land, K.C., and Stallard, E.)

2004

“Geographic Limits on Nursing Home Access Among Priority Group 1a Veterans.” Poster Session at the American Geriatrics Society 2004 Annual Scientific Meeting,

Las Vegas, NV, May 17–21, 2004. (Kinosian, B., Martindale, M.E., Ripley, B., Stallard, E.)

“The Expected Outcomes and Costs of U.S. Patients with Incident Suspected Alzheimer's Disease (AD) over 15 Years.” Poster Session at the 9th International Conference on Alzheimer's Disease and Related Disorders, Presented by the Alzheimer's Association, July 17–22, 2004, Philadelphia, PA. (Kinosian, B., Stallard, E., Manton, K.G., Straley, D.L., Zbrozek, A., and Glick, H.A.)

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“Demand for long-term care services among enrolled veterans.” Commissioned paper presented at the State of the Art Conference, *Leading the Way to Quality Long-Term Care: Lessons from the Past, Strategies for the Future*. Department of Veterans Affairs’ Office of Research and Development, Health Services Research and Development Service, September 15–17, 2003, Alexandria, VA. (Kinosian, B., Stallard, E., Wieland, D.)

2002

“Estimates of Prevalence and Trends in Old-Age Disability: Another Look Using Data from the National Long-Term Care Surveys.” Presented at the Population Association of America Annual Meeting, May 9–11, 2002, Atlanta. (Larry S. Corder, Eric Stallard, and Kenneth C. Land)

2000

“Does treatment for Alzheimer's disease save money?” Presented at the 22nd Annual Meeting of the Society for Medical Decision Making, Cincinnati, OH, September 24–27, 2000. (Henry A. Glick, Eric Stallard, Jason Lee, Max A. Woodbury, Arthur Zbrozek, and Bruce Kinosian)

1999

“Predicting 10-year outcomes of Alzheimer's disease.” Presented at the International Society of Technology Assessment in Health Care 15th Annual Meeting, Edinburgh, U.K., June 19–23, 1999. (Henry A. Glick, Eric Stallard, Jason Lee, Max A. Woodbury, Arthur Zbrozek, and Bruce Kinosian)

1998

“A comparison of the Mini-Mental State Exam and the Short Portable Mental Status Questionnaire in Alzheimer's disease.” Presented at the American Geriatrics Society Annual Meeting, Seattle, Washington, May 6–10, 1998. (Jason Lee, Bruce Kinosian, Eric Stallard, Max A. Woodbury, Richard Berzon, Arthur Zbrozek, and Henry A. Glick)

“Economic effects of reducing disability.” Presented at the ASSA meeting, Chicago, Illinois, January 3–5, 1998. In *American Economic Review* 88(2):101-105, 1998. (with Kenneth G. Manton and Larry S. Corder)

“Home health and SNF use by chronically disabled persons.” Presented at the American Public Health Association Annual Meeting, Washington, D.C., November 15–19, 1998. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

“Predicting 5-year outcomes of Alzheimer’s disease.” Presented at the American Geriatrics Society Annual Meeting, Seattle, Washington, May 6–10, 1998. (Bruce Kinosian, Eric Stallard, Jason Lee, Max A. Woodbury, Richard Berzon, Arthur Zbrosek, M. Eugene Smith, and Henry A. Glick)

“Predicting 5-year outcomes of Alzheimer’s disease.” Presented at the American Medical Directors Association 21st Annual Symposium, San Antonio, Texas, March 5–8, 1998. (Bruce Kinosian, Eric Stallard, Jason Lee, Max A. Woodbury, Richard Berzon, Arthur Zbrosek, M. Eugene Smith, and Henry A. Glick)

“Prostate cancer in Danish twins: Recurrence risk for MZ vs DZ pairs using a conditional approach based on Risch, Biometrics 1983.” Presented at the Nordic Cancer Collaboration Meeting, Stockholm, Sweden, January 9, 1998. (Elizabeth H. Corder, Eric Stallard, Lars Hvidberg, Kaare Christensen, and Niels V. Holm)

1997

“The limits of longevity and their implications for health and mortality in developed countries.” Presented at the U.N. Symposium on Health and Mortality, Brussels, Belgium, November 19–22, 1997. In *Proceedings of the UN-CBGS Symposium on Health and Mortality*. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

1995

“Multivariate analyses of longitudinal survey data and estimation of health changes at older ages.” Presented at the International Conference on Survey Measurement and Process Quality, Bristol, U.K., April 1–4, 1995. (Kenneth G. Manton, Larry S. Corder, Max A. Woodbury, and Eric Stallard)

“Use of Medicare home health and skilled nursing facilities by specific health subgroups of the elderly and very elderly U.S. population 1982–1994.” Presented at the Gerontological Society of America meetings, Los Angeles, California, Nov. 15–10, 1995. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

1994

“Is oldest-old mortality lower in the United States than in Japan and Western Europe?” Presented at the Odense Research Workshop on Oldest-Old Trajectories: Twins and Centenarians. Hindsgavl, Denmark, Sept. 1–3, 1994. (James W. Vaupel, Kenneth G. Manton, and Eric Stallard)

“Longitudinal models of disability changes and active life expectancy in elderly populations: The interaction of sex, age and marital status.” Presented at the Meeting of the Working Group on Modelling Noncommunicable Diseases: Methodological Issues, sponsored by the World Health Organization and the Heidelberg Academy for the Humanities and Sciences, Heidelberg, Sept. 19–21, 1994. (Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

“Multidimensional generalization of the Gompertz population mortality model.” Presented at the Gerontological Society of America/American Geriatrics Society Meeting, Atlanta, Georgia, Nov. 18–22, 1994. (Kenneth G. Manton, J. Edward Dowd, Max A. Woodbury, and Eric Stallard)

“Report on LTC non-insured non-institutional experience.” Presented at the Society of Actuaries Spring Meeting, San Antonio, Texas, June 15–17, 1994. In *Record (Society of Actuaries)* 20(3B):1025–1050. (Robert K.W. Yee and Eric Stallard)

1993

“The influence of disease risk factors on health status and mortality projections for aged populations.” Presented at the Conference sponsored by the United Nations, the World Health Organization, IUSSP Committee on Adult Mortality, City of Sendai, and Japan Aging Research Center, Sendai City, Japan, June 21–25, 1993. (J. Edward Dowd, Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

“Recent trends in chronic disability and institutionalization in the U.S. elderly population: Results from the 1982, 1984, and 1989 National Long Term Care Surveys.” Presented at the 46th Annual Scientific Meeting of the Gerontological Society of America, “Adding Life to Years”, New Orleans, Nov. 19–23, 1993. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

1992

“An integrated model of mortality differentials between men and women.” Presented at the IUSSP Seminar on Premature adult mortality in developed countries: From description to explanation. Taormina, Italy, June 1–5, 1992. (Kenneth G. Manton and Eric Stallard)

1991

“The selection of strategies to maximize health and functioning as well as to increase life expectancy.” Presented at the Conference on Resources and Population, Pontifical Academy of Sciences, Vatican City, Nov. 17–22, 1991. (Kenneth G. Manton and Eric Stallard)

1990

“Assessment of spatial variation of risks in small populations.” Presented at the Second International Meeting of the International Society for Environmental Epidemiology, Berkeley, California, Aug. 13–15, 1990. (Wilson B. Riggan, Kenneth G. Manton, John P. Creason, Max A. Woodbury, and Eric Stallard)

“Cross-sectional estimates of active life expectancy for the U.S. elderly and oldest-old populations with an application to forecasts of the aged institutionalized population.” Presented at the meetings of the Population Association of America, Toronto, May 1990. (Kenneth G. Manton, Larry S. Corder, and Eric Stallard)

1989

“Forecasts of active life expectancy: Policy and fiscal implications.” Presented at the Meetings of the Gerontological Society of America, Minneapolis, Nov. 17–21, 1989. (Kenneth G. Manton, Korbin Liu, and Eric Stallard)

1988

"Cohort differentials in the severity of causes of death: United States, 1968–1982." Presented at Southern Demographic Association meetings, San Antonio, Texas, October 21, 1988. (J. Michael Wrigley, Eric Stallard, and Kenneth G. Manton)

"Forecasts of the theoretical limits to human life expectancy." Presented at the Workshop on Estimating an Upper Limit to Human Life Expectancy, sponsored by the National Institute on Aging and the University of California, Berkeley, California, April 28–30, 1988. (Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

1987

"A system for mapping U.S. mortality data." Presented at American Statistical Association Winter Conference, Orlando, Florida, January 1987. (Gene R. Lowrimore, Max A. Woodbury, Kenneth G. Manton, Eric Stallard, Wilson B. Riggan, and John P. Creason)

1986

"Application of the Grade of Membership technique to event history analysis: Extensions to multivariate unobserved heterogeneity." Presented at Annual Meeting of the Population Association of America, San Francisco, April 3–5, 1986. (Kenneth G. Manton, Max A. Woodbury, Eric Stallard, and Anatoli I. Yashin)

"Empirical Bayes approaches to the analysis of psychiatric disorder rates in small populations: Uses in synthetic estimation and forecasting." Presented at Small Area Estimation Conference sponsored by NIMH, Center for Demographic Studies, March 27–28, 1986. (Kenneth G. Manton, Max A. Woodbury, Eric Stallard, David J. Jackson, and Harold F. Goldsmith)

"Models of the interaction of mortality and the evolution of risk factor distribution: A general stochastic process formulation." Presented at Methods for Longitudinal Data Analysis in Epidemiological and Clinical Studies Workshop, Risk Factors and Survival, sponsored by the National Heart, Lung, and Blood Institute, Bethesda, Maryland, September 25–26, 1986. (Kenneth G. Manton, Max A. Woodbury, and Eric Stallard)

1985

"A composite estimation model for producing stabilized health rate estimates for small areas using sample surveys: Experience from health surveys in Ethiopia, India, and Indonesia." Presented at the International Symposium on Small Area Estimates, Ottawa, Canada, sponsored by Statistics Canada, May 1985. (Kenneth G. Manton, J. Edward Dowd, Max A. Woodbury, and Eric Stallard)

1980

"Procedures for monitoring the effects of geography on the product form of the hazard rate." Presented at *Environmetrics 81*, sponsored by the Environmental Protection Agency, Society for Industrial and Applied Mathematics, and SIAM Institute for Mathematics and Society, Washington, D.C., April 6–8, 1981. In *Summaries of Conference Presentations 1981*, pp. 268–269. (Kenneth G. Manton, H.O. Hartley, Max A. Woodbury, Wilson B. Riggan, and Eric Stallard)

"A stochastic compartment model of environmentally induced local health effects." Presented at *Environmetrics 81*, sponsored by the Environmental Protection Agency, Society for Industrial and Applied Mathematics, and SIAM Institute for Mathematics and Society, Washington, D.C., April 6–8, 1981. In *Summaries of Conference Presentations* 1981, pp. 216-217. (Kenneth G. Manton, H.O. Hartley, Max A. Woodbury, Wilson B. Riggan, and Eric Stallard)

1977

"Health status projections of the U.S. male veteran population." Presented at the annual meeting of the Population Association of America, St. Louis, Missouri, April 21–23, 1977. (Alfred M. Pitts, Roger Hillson, and Eric Stallard)

"A microsimulation model for health status projections." Presented at the annual meeting of the International Epidemiological Association, San Juan, Puerto Rico, September 18–23, 1977. (George C. Myers, Alfred M. Pitts, Roger Hillson, and Eric Stallard)